

APRIL/MAY 2024

**CSC41/FSC41 — RELATIONAL DATABASE
MANAGEMENT SYSTEM**

Time : Three hours

Maximum : 75 marks



SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Database Systems.
2. What is DDL?
3. What is nested subqueries?
4. Define Views.
5. What is normal form?
6. State about 3NF.
7. Define Cache.
8. What do you mean by Heap file organization?
9. Write the general syntax of triggers.
10. Name the types of parameter used in procedure.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) List the functions of DBA.

Or

- (b) Explain the basic structure of relational databases.

12. (a) Explain the various set operations in SQL.

Or

- (b) Explain any five Aggregate functions with neat example.

13. (a) With an example, explain Boyce Codd normal form.

Or

- (b) Explain about state diagram of a transaction.

14. (a) Comments on organization of record in files.

Or

- (b) What is Bind Variable? Explain with examples.

15. (a) What are four cursor attribute? State their use.

Or

- (b) Explain the working of BEFORE and AFTER triggers.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. With neat diagram discuss about database architecture.

17. Discuss in detail about the Entity-Relationship model.

18. Explain how normal forms are related?

19. Illustrates data types used in PL/SQL.

20. Discuss in detail about the usage of procedures in PL/SQL.

